

CLAIMS

What is claimed is:

1. A method for modifying a particle suspension comprising the steps of:
moving a fluid suspending solid particles in a first fluid stream; and
moving the fluid in a second fluid stream, wherein the second fluid stream is oriented and positioned with respect to the first stream to cause shearing between the streams and mixing of at least some of the particles in the first and second streams.
2. A method for modifying a particle suspension comprising the steps of:
moving a fluid suspending solid particles from a first entrance point in a first fluid stream; and
moving the fluid from a second entrance point in a second fluid stream, wherein the second fluid stream is oriented and positioned with respect to the first stream to cause shearing between the streams and mixing of at least some of the particles in the first and second streams.
3. A method for modifying a particle suspension comprising the steps of:
moving a first fluid suspending solid particles in a first fluid stream; and
moving a second fluid in a second fluid stream, wherein the second fluid stream is oriented and positioned with respect to the first stream to cause shearing between the streams and mixing of at least some of the particles in the first stream.
4. The method of Claim 3, wherein the second fluid includes solid particles.
5. A method for preparing a particle suspension comprising the steps of:
mixing a solution including a dissolved organic compound with a solvent to form a suspension of particles;
moving the suspension in a first fluid stream; and
moving the suspension in a second fluid stream, wherein the second fluid stream is oriented and positioned with respect to the first stream so as to cause shearing between the streams and mixing of at least some of the particles in the first and second streams.

6. The method of Claim 5, wherein the step of mixing includes using the Venturi effect to combine the solution and the solvent into a single flow path.

7. A method for preparing a particle suspension comprising the steps of:

moving a solution including a organic compound dissolved in a water-miscible organic compound to form a first solution stream; and

moving water in a second solution stream, wherein the first solution stream is oriented and positioned with respect to the second solution stream so as to cause shearing between the streams and mixing of the solution of the solvent streams to produce the particle suspension.

8. An apparatus for comminuting particles suspended in solution comprising:
a nozzle; and

a turbulating structure provided in the nozzle, the turbulating structure including at least one baffle.